

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**Form PTO-1449 (Modified)
(Use several sheets if necessary)**COMPLETE IF KNOWN**

Application Number	09/894,642
Confirmation Number	1958
Filing Date	June 27, 2001
First Named Inventor	Kenneth H. Abbott
Group Art Unit	2143
Examiner Name	David A. Wiley
Attorney Docket No.	294438020US4

Sheet 1 of 1

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	U.S. Patent or Application		Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		NUMBER	Kind Code (if known)			
W		5,873,070		Bunte et al.	2/16/99	
W		6,154,745		Kari et al.	11/28/00	
W		6,308,203		Itabashi et al.	10/23/01	
W		6,230,111		Mizokawa	5/8/01	
W		6,405,159		Bushey et al.	6/11/02	
W		6,446,076		Burkey et al.	9/3/02	

RECEIVED

APR 05 2004

Technology Center 2100

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent or Application			Name of Patentee or Applicant of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	NUMBER	Kind Code (if known)				

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS


Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.	T
W		Han, J. et al., "DBMiner: A system for mining knowledge in large relational databases," Proceedings 1996 International Conference on Data Mining and Knowledge Discovery, Portland, OR, August 1996 http://citeseer.nj.nec.com/article/han96dbminer.html ; 6 pages	
W		Ni, Y., "Attribute Name Evaluation and Its Implementation," School of Computing and Mathematics, Deakin University, Geelong, Victoria, May 16, 1994, 32 pages	

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application(s).

BEST AVAILABLE COPY

 INFORMATION DISCLOSURE STATEMENT BY APPLICANT Form PTO-1449 (Modified) Use several sheets if necessary				COMPLETE IF KNOWN	
				Application Number	09/894,642
				Confirmation Number	1958
				Filing Date	June 27, 2001
				First Named Inventor	Kenneth H. Abbott
				Group Art Unit	2153
Examiner Name	Glenton B. Burgess				
Attorney Docket No.	294438020US4				
Sheet	1	of	1		

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.	U.S. Patent or Application		Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		NUMBER	Kind Code (if known)			

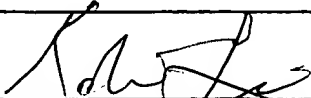
RECEIVED

NOV 10 2003

Technology Center 2100

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.	Foreign Patent or Application			Name of Patentee or Applicant of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	NUMBER	Kind Code (if known)				

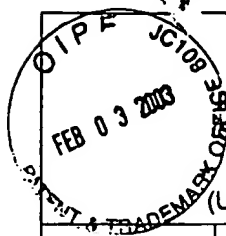
OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.	T
h		Bacon, J., et al., "Using Events to Build Distributed Applications," University of Cambridge, 1996, 8 pages http://citeseer.nj.nec.com/context/121546/72159	
u		Crabtree, I. B., et al., "Wearable computing and the remembrance agent," <i>BT Technology Journal</i> , Vol. 16, No. 3, July 1998, pp. 118-124	
a		Schmidt, A., et al., "There is more to context than location," Proceedings of the International Workshop on Interactive Applications of Mobile Computing (IMC98), Germany, November 1998, 10 pages http://citeseer.nj.nec.com/schmidt98there.html	
h		Wachowicz, M., et al., "Combining Location and Data Management in an Environment for Total Mobility," University of Cambridge, England, 1996, 12 pages http://citeseer.nj.nec.com/context/931687/334875	

EXAMINER		DATE CONSIDERED	3/9/05
*EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application(s).			

Please type a plus sign (+) inside this box → +

PTO/SB/08A

Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE



INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Form PTO-1449 (Modified)
(Use several sheets if necessary)

COMPLETE IF KNOWN

Application Number	09/894,642	Conf. No.	1958
Filing Date	June 27, 2001		
First Named Inventor	Kenneth H. Abbott		
Group Art Unit	2152		
Examiner Name	Unknown		
Attorney Docket No.	294438020US4		

Sheet 1 of 4

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	U.S. Patent or Application		Name of Patentee or Applicant of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	NUMBER	Kind Code (if known)			
W	4,916,441		Gombrich	4/10/90	
	5,032,083		Friedman	7/16/91	
H	5,201,034		Matsuura et al.	4/6/93	
H	5,208,449		Eastman et al.	5/4/93	
H	5,214,757		Mauney et al.	5/25/93	
H	5,227,614		Danielson et al.	7/13/93	
H	5,335,276		Thompson et al.	8/2/94	
H	5,416,730		Lookofsky	5/16/95	
RP	5,470,233		Fruchterman et al.	11/28/95	
RP	5,493,692		Theimer et al.	2/20/96	
RP	5,544,321		Theimer et al.	8/6/96	
RP	5,555,376		Theimer et al.	9/10/96	
RP	5,559,520		Barzegar et al.	9/24/96	
RP	5,568,645		Morris et al.	10/22/96	
RP	5,601,435		Quy	2/11/97	
RP	5,603,054		Theimer et al.	2/11/97	
RP	5,611,050		Theimer et al.	3/11/97	
RP	5,642,303		Small et al.	6/24/97	
RP	5,646,629		Loomis et al.	7/8/97	
RP	5,719,744		Jenkins et al.	2/17/98	
RP	5,726,660		Purdy et al.	3/10/98	
RP	5,751,260		Nappi et al.	5/12/98	
RP	5,781,913		Felsenstein et al.	7/14/98	
RP	5,790,974		Tognazzini	8/4/98	
RP	5,798,733		Ethridge	8/25/98	
RP	5,812,865		Theimer et al.	9/22/98	
RP	5,873,070		Bunte et al.	2/16/99	
RP	5,878,274		Kono et al.	3/2/99	
RP	5,902,347		Backman et al.	5/11/99	
RP	5,910,799		Carpenter et al.	6/8/99	
RP	5,938,721		Dussell et al.	8/17/99	
RP	5,948,041		Abo et al.	9/7/99	
RP	5,959,611		Smailagic et al.	9/28/99	
RP	5,991,687		Hale et al.	11/23/99	
RP	6,014,638		Burge et al.	1/11/00	
RP	6,047,301		Bjorklund et al.	4/4/00	
RP	6,064,943		Clark, Jr. et al.	5/16/00	
RP	6,108,197		Janik	8/22/00	
RP	6,127,990		Zwern	8/3/00	

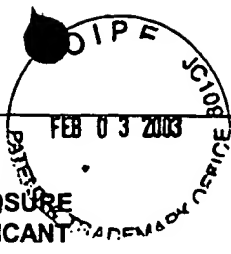
RECEIVED
FEB 06 2003
Technology Center 2150

EXAMINER <i>K. L. S.</i>	DATE CONSIDERED <i>3/9/05</i>
<p>* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw (line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).</p>	

Please type a plus sign (+) inside this box → +

PTO/SB/08A

Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE



INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Form PTO-1449 (Modified)
(Use several sheets if necessary)

COMPLETE IF KNOWN

Application Number	09/894,642	Conf. No.	1958
Filing Date	June 27, 2001		
First Named Inventor	Kenneth H. Abbott		
Group Art Unit	2152		
Examiner Name	Unknown		
Attorney Docket No.	294438020US4		

Sheet 2 of 4

U.S. PATENT DOCUMENTS

*EXAMINER INITIALS	U.S. Patent or Application		Name of Patentee or Applicant of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	NUMBER	Kind Code (if known)			
el	Patent Application No. 09/724,777		Abbott et al.	11/28/00	
el	Patent Application No. 09/724,799		Abbott et al.	11/28/00	
ul	Patent Application No. 09/724,892		Abbott et al.	11/28/00	
ul	Patent Application No. 09/724,893		Abbott et al.	11/28/00	
h	Patent Application No. 09/724,902		Abbott et al.	11/28/00	
a	Patent Application No. 09/724,932		Abbott et al.	11/28/00	
nl	Patent Application No. 09/724,949		Abbott et al.	11/28/00	

RECEIVED
FEB 06 2003
Technology Center 2100

FOREIGN PATENT DOCUMENTS

*EXAMINER INITIALS	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
	Office	Number	Kind Code (if known)				
cl	EPO	EP 0823 813A2		Kopin Corporation	2/11/98		
h	JPO	05260188		Matsushita Electric Ind. Co. Ltd.	10/8/93	Abstract Only	
h	JPO	09091112		Toshiba Corp.	4/4/97	Abstract Only	
h	PCT	WO 90/08361		The Scott Fetzer Company	7/26/90		
h	PCT	WO 97/03434		Virtual I/O, Inc.	1/30/97		

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS

*EXAMINER INITIALS	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume, issue number(s), publisher, city and/or country where published.	T
el	"Affective Understanding: Modeling and Responding to User Affect," http://www.media.mit.edu/affect/AC_research/understanding.html , pp. 1-3 [Accessed 2 Oct 1998].	
h	"Alps GlidePoint," http://www.alps.com/p17.html , p. 1 [Accessed 2 Oct 1998].	
h	"GyroPoint Technology," http://www.gyration.com/html/gyropoint.html , pp. 1-3 [Accessed 2 Oct 1998].	
h	"Haptics," http://www.ai.mit.edu/projects/handarm-haptics/haptics.html , pp. 1-2 [Accessed 2 Oct 1998].	
h	"Research Areas in Affective Computing," http://www.media.mit.edu/affect/ , p. 1 [Accessed 2 Oct 1998].	
h	"Research on Affective Pattern Recognition and Modeling," http://www.media.mit.edu/affect/AC_research/recognizing.html , pp. 1-4 [Accessed 2 Oct 1998].	
h	"Research on Sensing Human Affect," http://www.media.mit.edu/affect/AC_research/sensing.html , pp. 1-5 [Accessed 2 Oct 1998].	

EXAMINER

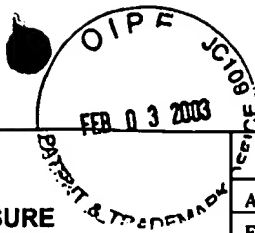
K. H. Abbott

DATE CONSIDERED

3/9/05

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

Please type a plus sign (+) inside this box → +



PTO/SB/08A

Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT				COMPLETE IF KNOWN	
Form PTO-1449 (Modified) (Use several sheets if necessary)				Application Number	09/894,642
				Filing Date	June 27, 2001
				First Named Inventor	Kenneth H. Abbott
				Group Art Unit	2152
				Examiner Name	Unknown
Sheet	3	of	4	Attorney Docket No.	294438020US4
OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS					
*EXAMINER INITIALS	T	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume, issue number(s), publisher, city and/or country where published.			
u		"Smart Rooms," http://vismod.www.media.mit.edu/vismod/demos/smartroom/ , pp. 1-3 [Accessed 2 Oct 1998].			
u		"SmartDesk Home Page," http://vismod.www.media.mit.edu/vismod/demos/smartdesk/ , pp. 1-4 [Accessed 2 Oct 1998].			
u		"The MIT Wearable Computing Web Page," http://wearables.www.media.mit.edu/projects/wearables/ , pp. 1-3 [Accessed 2 Oct 1998].			
u		"Wearable Computer Systems for Affective Computing," http://www.media.mit.edu/affect/AC_research/wearables.html , pp. 1-5 [Accessed 2 Oct 1998].			
u		Aoki, Hisashi et al., "Realtime Personal Positioning System for a Wearable Computer," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999			
u		Bauer et al., "A Collaborative Wearable System with Remote Sensing," University of Oregon, February 1996			
u		Billinghurst, Mark and Thad Starner, "New Ways to Manage Information," <i>IEEE</i> , pp. 57-64, January 1999.			
u		Bowskill, J. et al., "Wearable Location Mediated Telecommunications; A First Step Towards Contextual Communication," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19 1999			
u		Dey, Anind K. et al., "The Conference Assistant: Combining Context-Awareness with Wearable Computing," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999			
u		Finger et al., "Rapid Design and Manufacture of Wearable Computers," <i>Communication of the ACM</i> , Vol. 39, No. 2, February 1996, pp. 63-68			
u		Golding, Andrew and Neal Lesh, "Indoor Navigation Using a Diverse Set of Cheap, Wearable Sensors," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999			
u		Hull et al., "Towards Situated Computing," Hewlett-Packard Laboratories, HPL-97-66 (1997).			
u		Kirsch, Dana, "The Sentic Mouse: A tool for measuring emotional valence," http://www.media.mit.edu/affect/AC_research/projects/sentic_mouse.html , pp. 1-2 [Accessed 2 Oct 1998].			
u		Kortuem et al., "Context-Aware, Adaptive Wearable Computers as Remote Interfaces to 'Intelligent' Environments," University of Oregon, October 1998			
u		Kortuem, Gerd, "When Cyborgs Meet: Building Communities of Cooperating Wearable Agents," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999			
u		Lashkari, Yezdi et al., "Collaborative Interface Agents," <i>Proceedings of AAAI '94 Conference</i> , Seattle, Washington, August 1994			
u		Lehikoinen, Juha et al., "MEX: A Distributed Software Architecture for Wearable Computers," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999			
u		Leonhardi, Alexander et al., "Virtual Information Towers - A Metaphor for Intuitive, Location-Aware Information Access in a Mobile Environment," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999			
u		Lunt, Teresa F. et al., "Knowledge-Based Intrusion Detection," <i>Proceedings of the Annual Artificial Intelligence Systems in Government Conference</i> , IEEE Comp. Soc. Press, Vol. Conf. 4, 1989, pages 102-107.			
u		Maes, Pattie, "Agents That Reduce Work and Information Overload," <i>Communications of the ACM</i> , Vol. 37, No. 7, July 1994			
u		Mann, Steve, "Smart Clothing: Wearable Multimedia Computing and 'Personal Imaging' to Restore the Technological Balance Between People and Their Environments," <i>ACM Multimedia</i> , November 1996, pp. 163-174			
u		Metz, Cade, "MIT: Wearable PCs, Electronic Ink, and Smart Rooms," <i>PC Magazine</i> , pp. 192-193, June 1998.			
u		Oakes, Chris, "The Truman Show Realized?," http://www.wired.com/news/news/technology/story/15745.html , pp. 1-4 [Accessed 21 Oct 1998].			
u		Picard, R.W. and Healey, J., "Affective Wearables," <i>Personal Technologies</i> vol. 1: 231-240, MIT Media Laboratory (1997).			
u		Rekimoto et al., "The World through the Computer: Computer Augmented Interaction with Real World Environments," <i>ACM</i> , November 1995, pp. 29-36			
u		Rhodes, Bradley, "WIMP Interface Considered Fatal," http://rhodes.www.media.mit.edu/people/rhodes/Papers/no-wimp.html , pp. 1-3 [Accessed 2 Oct 1998].			
u		Rhodes, Bradley, J. "The Wearable Remembrance Agent: A System for Augmented Memory," <i>Proceedings of the First International Symposium on Wearable Computers (ISWC '97)</i> , Cambridge, MA, October 13-14, 1997			
u		Sato, J. et al., "Autonomous Behavior Control of Virtual Actors Based on the AIR Model," <i>Proceedings Computer Animation</i> , June 5, 1997.			
u		Schneider, Jay and Jim Suruda, "Modeling Wearable Negotiation in an Opportunistic Task Oriented Domain," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19 1999			

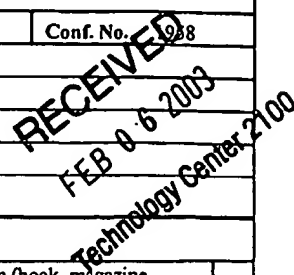
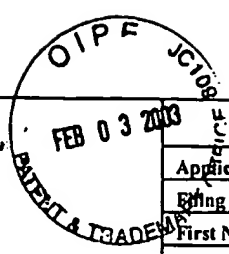
EXAMINER 	DATE CONSIDERED 3/9/05
* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).	

Please type plus sign (+) inside this box → +

PTO/SB/08A

Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT Form PTO-1449 (Modified) (Use several sheets if necessary)				COMPLETE IF KNOWN	
				Application Number	09/894,642
		Filing Date	June 27, 2001		
		First Named Inventor	Kenneth H. Abbott		
		Group Art Unit	2152		
		Examiner Name	Unknown		
		Attorney Docket No.	294438020US4		
Sheet	4	of	4		
OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS					
*EXAMINER INITIALS		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume, issue number(s), publisher, city and/or country where published.			T
W		Smailagic et al., "Matching interface design with user task: Modalities of Interaction with CMU Wearable Computers," IEEE Personal Communications, February 1996, pp. 14-25			
H		Smailagic, Asim et al., "MoCCA: A Mobile Communication and Computing Architecture," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999			
H		Stamer et al., "Visual Contextual Awareness in Wearable Computing," Media Lab, MIT, October 1998			
P		Tan, Hong Z. and Alex Pentland, "Tactual Displays for Wearable Computing," IEEE, Massachusetts Institute of Technology Media Laboratory, pp. 84-88, 1997.			
H		Yang, Jie et al., "Smart Sight: A Tourist Assistant System," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999			



EXAMINER 	DATE CONSIDERED
* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).	